

Briefing on Franks Tract, Delta Cross Channel Reoperation, and Through-Delta Facility

July 2005

Through-Delta Facility

Delta Cross Channel

Franks Tract



OBJECTIVES

- **Franks Tract**
Improve water quality, ecosystem, and recreational opportunities
- **Delta Cross Channel Re-operation**
Improve water quality and fisheries protection
- **Through-Delta Facility**
Improve water quality and fisheries protection

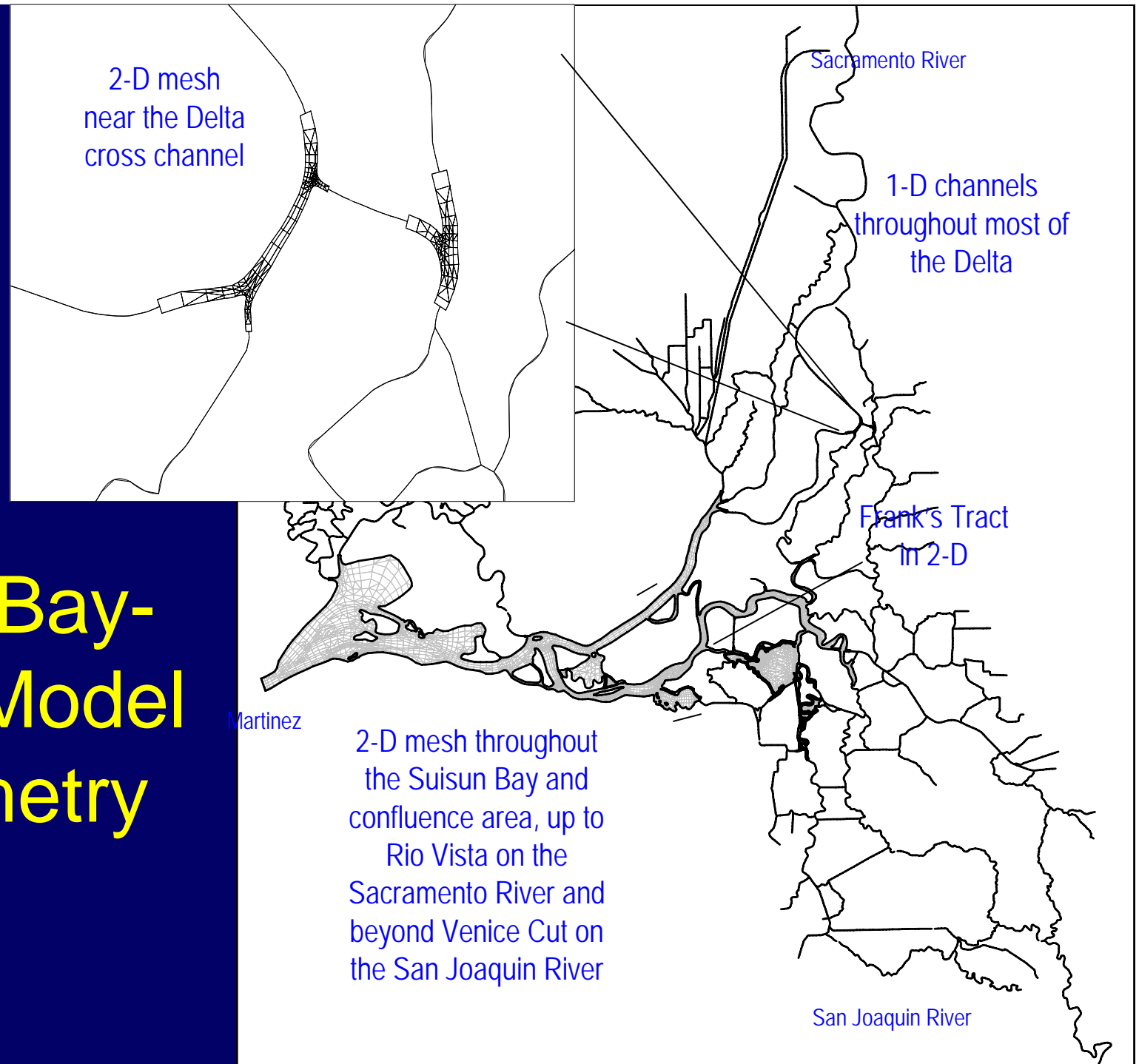
Conveyance Hydrodynamics Through-Delta Strategy



Lessons Learned to Date

- Water Quality
 - DCC/TDF shows up to ~15 % salinity reduction
 - Franks Tract shows up to ~30 % salinity reduction
- Fisheries
 - DCC entrains fish when open
 - Closing the DCC redistributes water (and fish) to other channels
 - Hydrodynamics at slough entrances affect fish entrainment
- Things We Need To Do or Know Better
 - Develop better numerical modeling of the Delta system
 - Regional flow, water quality and fish movements

RMA Bay-Delta Model Geometry



Modeling Studies

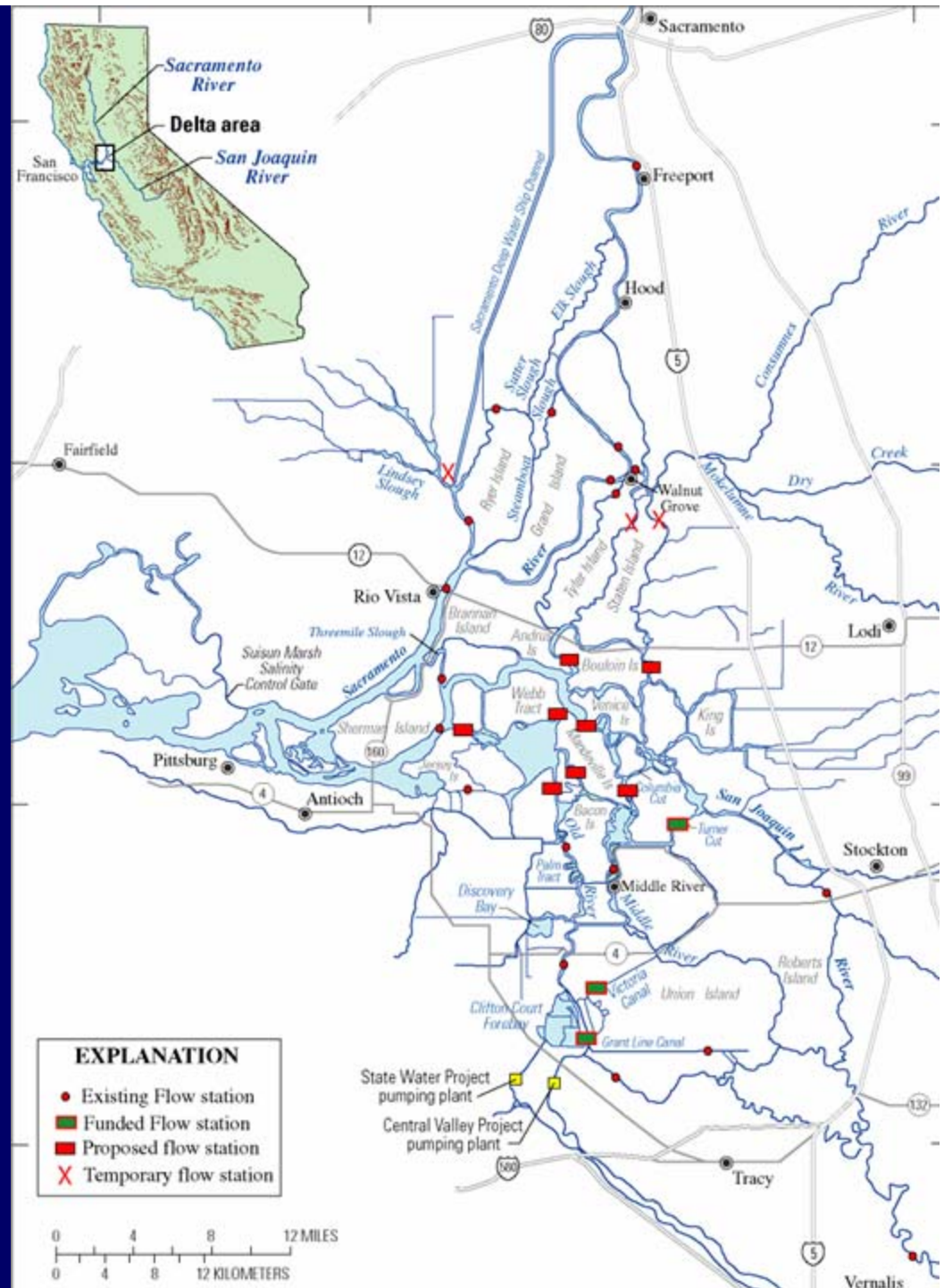
- **Modeling Scenarios**
 - Franks Tract alone
 - DCC reoperations alone
 - TDF with & without DCC
 - Combinations of the above
- **Expected Results**
 - Improved salinity response
 - Salinity improvements can be compared

Regional Field Study

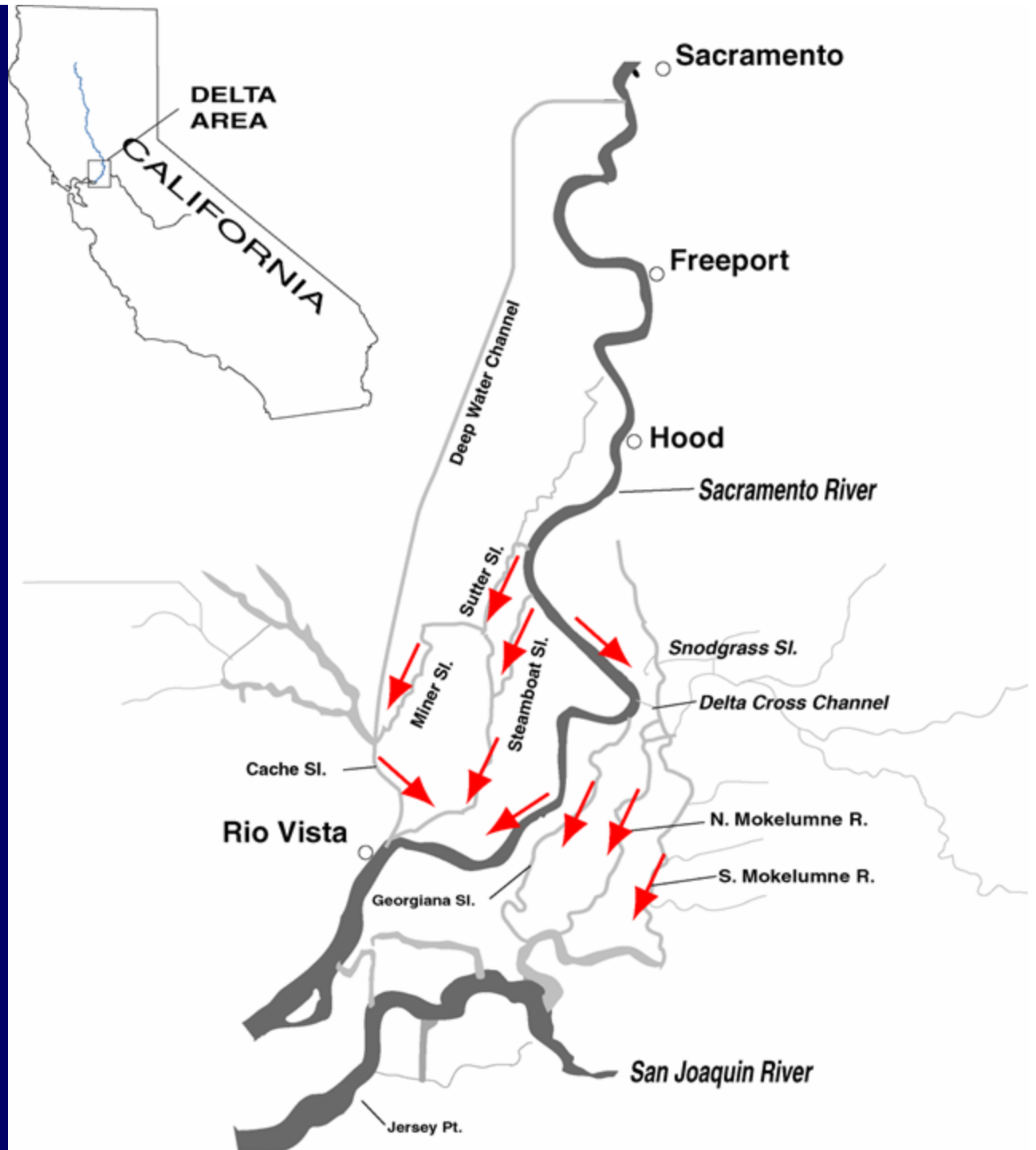
Water Quality Monitoring Component 2005-7

Flow and salinity stations being installed.

Flow and water quality will be evaluated under various DCC gate operations.



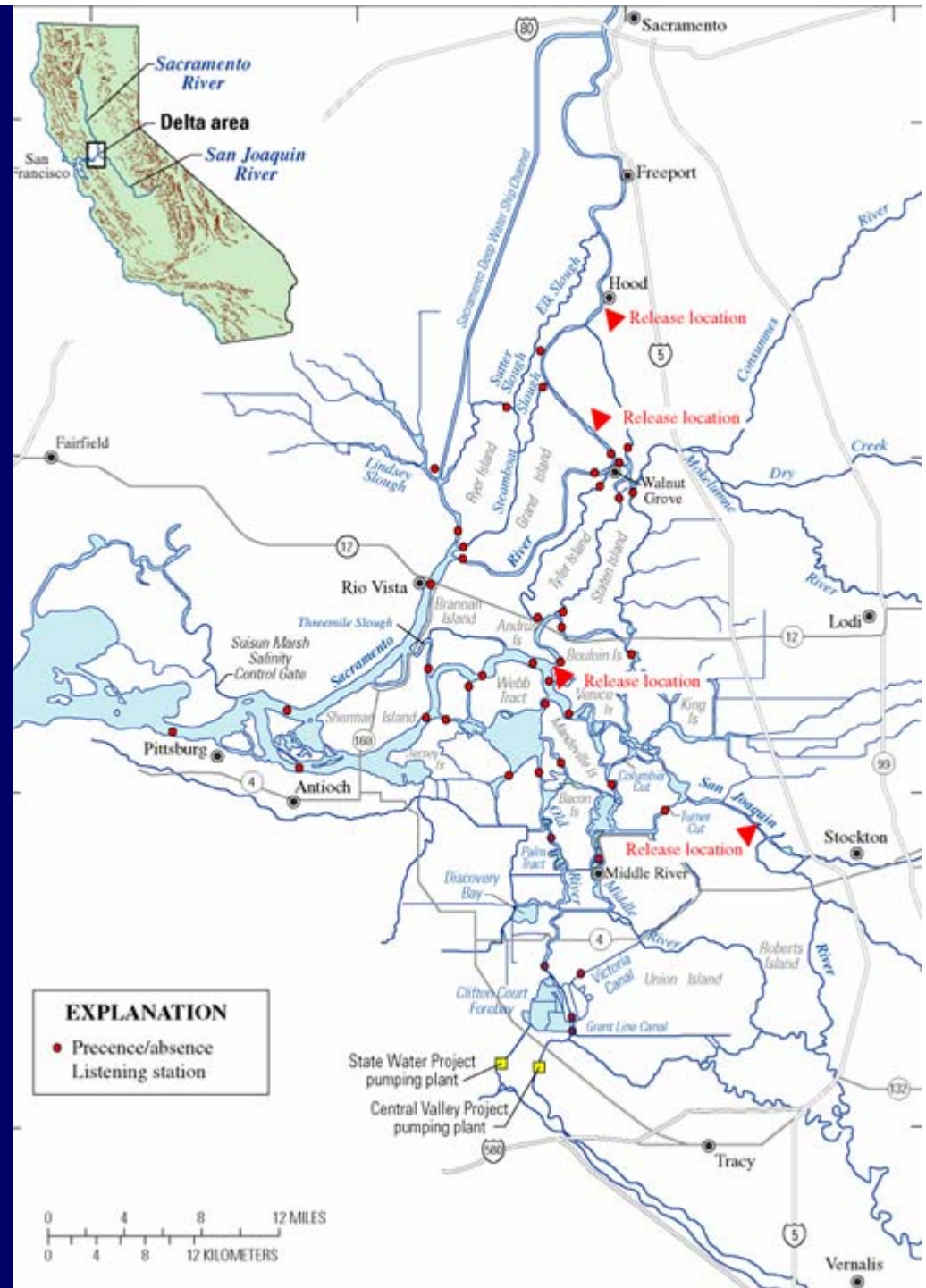
Channels Affected by DCC & TDF Operations



Regional Field Study

Fisheries Study Component -2006

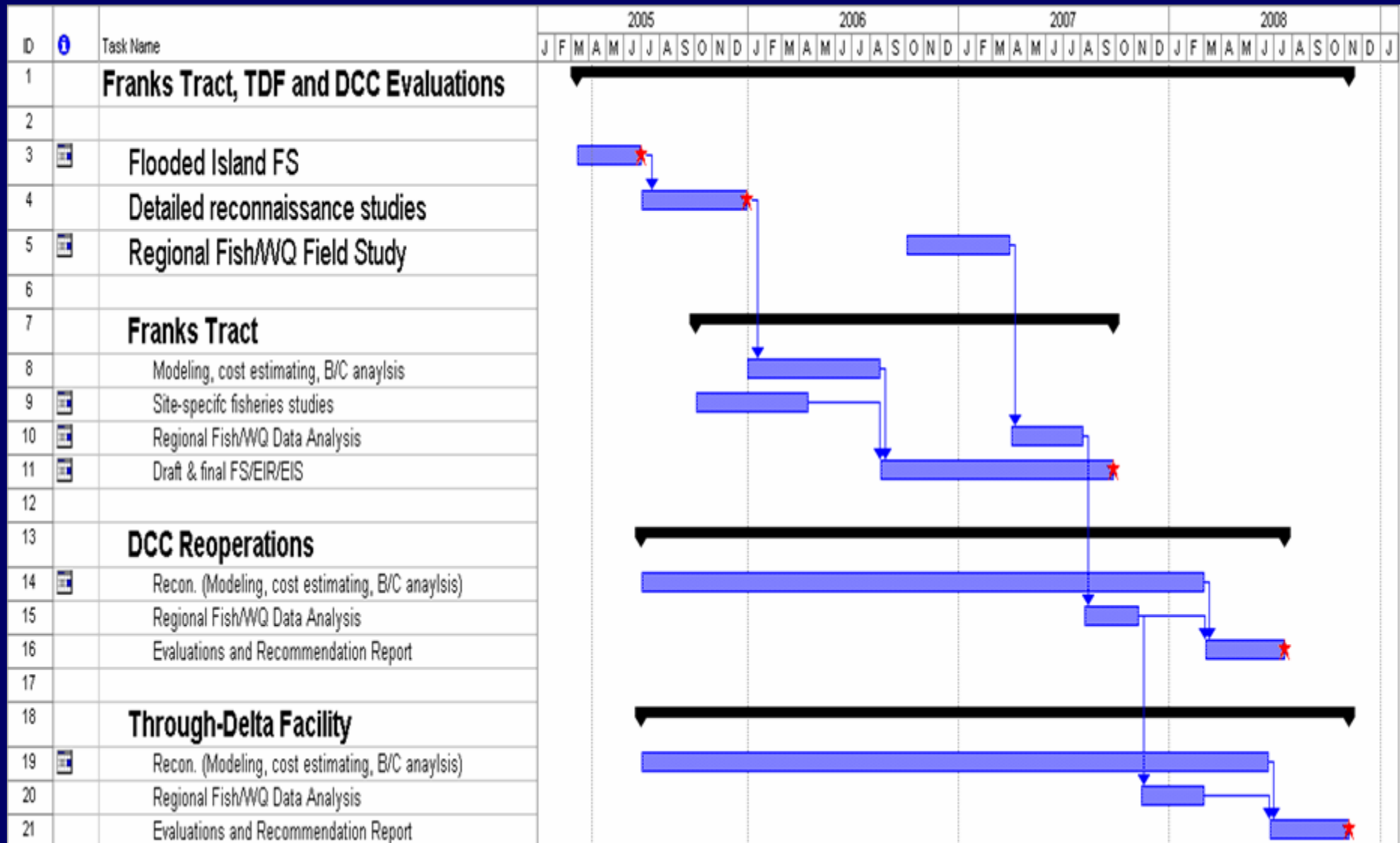
Fish releases and listening stations throughout the north and central Delta will evaluate fish movements and survival.



Budget and Funding

- **Franks Tract (Water Quality Program)**
 - Planning budget, \$13.4 M
 - Proposition 50 and SWP Funds
 - Federal Funds, yet to be determined
 - Construction budget, unknown
- **DCC and TDF (Conveyance Program)**
 - Planning budget, \$7.5 M DCC, \$9.5 M TDF
 - Unmet need, \$10.2 M
 - SWP Funds and Proposition 13
 - Federal Funds, yet to be determined

Franks Tract, DCC and TDF Schedules



Expected Milestones

- **Franks Tract Project**
 - Flooded Island FS/Recon. Studies, January 2006
 - Final Feasibility/EIR/EIS, October 2007
- **Delta Cross Channel Reoperation**
 - Recommendation Report, July 2008
- **Through-Delta Facility**
 - Recommendation Report, November 2008

Project Planning Assumptions

- Federal funding will be available
- USBR participation will occur
- Regional Study Proposal is approved by IEP & Science for 2006 implementation